DOUBLE-LOOP MOTION-COMPENSATION FINE GRANULAR SCALABILITY

RELATED APPLICATIONS

Commonly-assigned, copending U.S. Patent Application, No.

Single-Loop Motion-Compensation Fine Granular Scalability", filed

[0002] Commonly-assigned, copending U.S. Patent Application, No.

"Totally Embedded PGS Video Coding with Motion Compensation", filed

FIELD OF THE INVENTION

[0003] The present invention relates to video coding, and more particularly to a scalable enhancement layer video coding scheme that employs motion compensation within the enhancement layer for bi-directional predicted frames (B-frames) and predicted frames and bidirectional predicted frames and (P- and B-frames).

BACKGROUND OF THE INVENTION

[0004] Scalable enhancement layer video coding has been used for compressing video transmitted over computer networks having a varying bandwidth, such as the Internet. A current enhancement layer video coding scheme employing fine granular scalable coding techniques (adopted by the ISO MPEG-4 standard) is shown in FIG. 1. As can be seen, the video coding scheme 10 includes a prediction-based base layer 11 coded at a bit rate RBL and an FGS enhancement layer 12 coded at Rgi.

This application claims benefit of serial number 60/239,661 filed November 12,2000, and claims benefit of serial number 60/234,499 filed September 22,2000.